

Title (en)

Optical switch with an oscillating magnet armature

Title (de)

Optischer Schalter mit einem schwingenden Magnetanker

Title (fr)

Commutateur optique avec une armature d'aimant oscillante

Publication

EP 1394582 A2 20040303 (EN)

Application

EP 03019182 A 20030825

Priority

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Abstract (en)

An optical switch has an electromagnetic driving mechanism (1) that includes a U-shaped magnetic core having an intermediate portion between two leg parts, a coil wound on the U-shaped magnetic core, an armature (2) having two end portions that can face each other on the two leg parts and supported in such a manner that the armature can make an oscillating motion, and a permanent magnet arranged to apply a magnetic flux to the U-shaped magnetic core and the armature. The optical switch also has a mirror (3) as an optical path switching unit directly fixed on the armature (2), an incidence-side optical fiber (4) for making light incident on the mirror, and emission-side optical fibers (5,6) where the light with its optical path switched by the mirror (3) is coupled. <IMAGE> <IMAGE>

IPC 1-7

G02B 6/35

IPC 8 full level

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CPC (source: EP KR US)

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